

Summary Table of Nassau Grouper, (<u>Epinephelus striatus</u>) life history for the Gulf of Mexico. Associations and interactions with environmental and habitat variables are listed with citations.												
							Trophic relationships		Habitat Associations and Interactions			
Life Stage	Season	Location	Temp(°C)	Salinity(ppt)	Oxygen	Depth(m)	Food	Predators	Habitat Selection	Growth	Mortality	Production
Eggs	December-January		25°C 28°C				Yolk Sac			Hatch 23-40hrs after fertilization		
Citation	27,33,34		19							19,2		
Larvae	January-February	Not Offshore 0.8 - 16km off islands planktonic	23°C	36ppt		2-50m	Yolk sac. Begin feeding @ 60hr.			Eggs to larvae transition @ 6-7 weeks @ 1.7-1.8mm NL		Duration: 42 days (Bahamas)
Citation	9,27,33	8,2,9,19	34	34		9	21,19			20,19		34
Post Larvae	January-March		23°	336ppt			Copepods (Calanoid and poecilostomatoid). Decapod larvae					
Citation	27,33		34	34			31,32					
Early Juveniles (35mm-150mm TL).	February-August	See selection	22-33°	34-40ppt		Shallow	dinoflagelates, fish larvae, mysids. Gammaridean amphipods harpacticoid copepods		Seagrass beds Macroalgal mats (early). Tilefish mounds, small coral clumps.	Mean daily growth = 0.25mm (Bahamas) (60-70mm TL).		
Citation	29		32,34	32,34		10,29	23,32		10,28,29,32	34		Nassau Grouper, (<u>Epinephelus striatus</u>) cont.
							Trophic relationships		Habitat Associations and Interactions			
Life Stage	Season	Location	Temp(°C)	Salinity(ppt)	Oxygen	Depth(m)	Food	Predators	Habitat Selection	Growth	Mortality	Production

Late Juveniles (15-30cm TL)	Aug		22-33	34-40ppt			Crustaceans (lobster, crabs). At 20-25cm TL are piscivorous		Grass beds and move to offshore reefs (30-35cm TL)			
Citation	29		32,34	32,34			17,30,32		10,30,32			
Adults						Larger fish deeper than smaller fish 0-100m	Not specialized. Forage over reefs Crustaceans and fish	Sharks, barracuda	Reefs and crevice caves	Max size: 25kg 120cm TL 9-16yrs Lt=97.4. Rapid growth until sexual maturity, then slower	Z=0.55 F=0.37	Sexual maturity @ 400-450mm. Maybe protagynous hermaphrodites
Citation						14,15	22,17	7	11,12,13,29,30	13,14,7,25,26	26,27	6,16,2
Spawning Adults	Dec - Feb Full moon	Aggregations	25-26°C			Bahamas: 18-38m Belize: 27-40m Bermuda 33-37m Cayman Islands: 25-30m Virgin Islands: 20- 50m			Soft corals, sponges, stony, corals, sand			4-5 eggs/mg ripe ovary
Citation	2,18,13	1,2,3,4,5,6,7	18,13,2			1,2,3,4,5,6,7			1,2,4			13,18,7

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